Hosted in Philadelphia, PA • August 18-20, 2015

8th International Symposium on Resilient Control Systems

The major purpose of this symposium is to extend and endorse particular concepts that will generate novel research and codify resilience in next generation communication system designs

Statement of Themes: Engineering systems are increasingly subjected to disturbances which are not generally predictable at design time. These disturbances can be man-made or naturally occurring, and they can be physical or cyber in nature. A multi-disciplinary approach for designing controls for these systems is envisioned that provides the intrinsic state awareness and intelligence that give the overall system an increased level of resilience.

Submission Schedule
- Paper Submission Due: April 6, 2015
- Notification of Paper Acceptance: June 15, 2015
- Final Paper Submission: July 6, 2015

Cost
- $495
- $445 for registration by July 12, 2015
- $50 discount for IEEE IES members
- $50 discount for HFES members
- Half price registration for registered students

Venue/Accommodations
Hyatt Regency Philadelphia
201 S Columbus Blvd, Philadelphia, PA 19106
Tel: 215.928.1234 • Fax: 215.521.6543
Reservations

Schedule
- Day 1: Special Topics Sessions
- Day 2: Paper Sessions
- Day 3: Panel and Breakouts

Benefits
- Opportunity to participate in an evolving focus area within critical infrastructure protection and cyber-physical systems
- Reduced registration fee for IEEE IES members

General Chairs
- Frank Ferrese, Naval Surface Warfare Center
  Send Email
- David Scheidt, Johns Hopkins Applied Physics Laboratory
  Send Email

Organizing Chair
- Michelle Cozzi, Naval Surface Warfare Center
  Send Email

Technical Program Chairs
- Li Bai, Temple University

Call for Papers
Paper submission will be handled through the symposium website listed below.
Please refer to this website for the latest information.
- Full Papers: limited to 6 double column pages in a font no smaller than 10-points per IEEE format guidance.
- Work-in-Progress and Industry practice: limited to 4 double column pages, in a font no smaller than 10-points per IEEE format guidance. Work-in-Progress papers comprise up to 4 double-column pages, describing research that has not yet produced the results required for a regular paper, but that due its novelty and potential impact deserves to be shared with the community at an early stage. Accepted papers and Work-in-Progress papers will be published in the conference proceedings.

Topical Areas (including, but not limited to)
- Human Machine Interaction: cognitive modeling, machine learning, digital human modeling
- Human Systems Design: environmental configuration, tailored presentation
- Control Theory: intelligent, reconfigurable, optimal
- Control Framework: supervisory, multi-agent, distributed intelligence
- Sensor Architectures: embedded modeling and analysis, intelligence and agents, wireless control and determinism, multi-parameter integration and diversity
- Monitoring/Control Security: decoys, randomization, diversity, training and cognition, decision making, measurement
- Cyber Architecture: health indicators, defense optimization
- Data Fusion: data reduction, security characterization, data diversity, anomaly detection, response prioritization
- Computational Intelligence: machine learning, neural networks, fuzzy logic, evolutionary computation, Bayesian belief networks
- Cyber-physical power and energy systems: real-time communication, protection, control, resilience, reliability, sustainability, efficiency
- Robotic systems: Failure/error tolerance and recovery, adaptable/flexible architectures, multi-level/agent systems, multi-sensor fusion, tele-presence, probabilistic behaviors, performance validation/verification, communications security
- Cyber-physical system security
- Cyber security for industrial control systems

Keynote Speakers
- Paul Stockton, Sonecon, LLC

http://resilienceweek2015.inl.gov/ControlSystems/

Idaho National Laboratory INL ICE CAES Center for Advanced Energy Studies

Resilience Week 2015

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